

Appendix M

Groundwater Monitoring Well and Point Information

GROUNDWATER MONITORING WELL AND POINT INFORMATION

Form 4400-089 (R 04/19)

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Use the Groundwater Monitoring Well and Point Information Form to record identification, location and construction information for groundwater monitoring wells and any other sample "points," (e.g., gas probes, lysimeters, leachate collection systems, etc.), that are part of the environmental monitoring program. **NOTE:** Not all fields will be applicable to all point types. Only **one** coordinate reference system may be used per site. Allowable coordinate systems are listed below. (Coordinates for each system require a minimum number of digits as described below.) Local grid coordinates cannot be accepted. Identify the Coordinate Reference System, Datum and Method used.

Facility Name		County	Facility ID No. (FID)	License, Permit or Monitoring No.	Date	Completed By (Name and Firm)										
Vernon County MSW Landfill		Vernon	663038310	3268	04/11/2023	Brian Kent, SEH										
DNR Point ID No.	Point Name ¹	WUWN ² (if app.)	Type	Status	Gradient	Enf. Stds. Y/N.	Construction Date	Elevations msl (ft)			Well Casing		Well Screen Length (ft)	Well (Pt) Total Length ⁵ (ft)	Coordinates ^{6,7,8,9}	
								Ground Surface	Well Top (of casing)	Diam ³ (in)	Length ⁴ (ft)	Y / Lat / Northing			X / Long / Easting	
102	MW-1P		11	A			12/30/1987	1236.4	1238.41	P	2	101.1	10	111.1	1745957.3	582809.9
101	MW-1		12	A			12/30/1987	1236.4	1238.11	P	2	148.0	10	158.0	1745978.9	582815.9
121	MW-1PR		11	A			01/12/1994	1245.0	1247.61	P	2	112.7	15	127.7	1745694.8	582942.0
120	MW-1R		12	A			01/12/1994	1244.6	1247.25	P	2	149.6	15	164.6	1745703.8	582940.8
123	MW-1RZ		12	A			03/12/2003	1244.0	1245.45	P	2	181.5	5	186.5	1745693.6	582921.9
104	MW-2P		11	A			01/17/1988	1252.5	1254.88	P	2	114.8	10	124.8	1745476.5	583625.4
103	MW-2		12	A			01/17/1988	1252.5	1254.35	P	2	164.6	10	174.6	1745492.0	583625.4
105	MW-3		12	A			02/02/1988	1233.0	1235.25	P	2	175.0	5	180.0	1746427.4	584086.5
107	MW-4P		11	A			01/29/1988	1232.9	1235.19	P	2	85.0	10	95.0	1746438.4	584086.2
109	MW-5A		11	A			11/08/1989	1224.0	1225.18	P	2	88.3	15	103.3	1746571.9	583467.8
108	MW-5		12	A			02/17/1988	1223.3	1225.32	P	2	140.6	10	150.6	1746588.2	583467.9
110	MW-6		12	A			02/20/1988	1233.0	1235.37	P	2	197.2	5	202.2	1746417.4	584086.7
111	MW-7		12	A			11/07/1989	1255.7	1258.03	P	2	229.5	5	234.5	1745887.7	583843.8
112	MW-8R		12	A			11/13/1989	1256.1	1258.84	P	2	187.5	15	202.5	1745874.1	583836.9
113	MW-9		11	A			08/29/1989	1255.4	1257.50	P	2	111.8	15	126.8	1745892.2	583858.6
114	MW-10		12	A			09/15/1989	1215.6	1217.52	P	2	178.5	5	183.5	1746433.1	582822.1
115	MW-11		12	A			09/22/1989	1216.4	1218.36	P	2	147.5	15	162.5	1746431.9	582806.2
116	MW-12		11	A			09/22/1989	1216.4	1218.36	P	2	83.5	15	98.5	1746413.0	582806.6
117	MW-13P		11	A			02/26/2003	1224.5	1227.42	P	2	87.4	15	102.4	1746035.5	582910.4
118	MW-14	JX072	12	A			03/12/2003	1247.5	1249.69	P	2	171.1	15	186.1	1746475.7	583881.3
119	MW-14Z	JX073	12	A			03/07/2003	1247.5	1250.22	P	2	205.8	5	210.8	1746488.0	583866.9
125	MW-14WT	WC334	11	A			09/20/2022	1247.2	1249.70	P	2	90.0	15	105.0	1746693.0	583964.7
127	MW-15WT	WC335	11	A			09/28/2022	1220.6	1223.24	P	2	72.8	10	82.8	1746728.6	583598.0

Completion of this form is mandatory under chs. 281, 289 and 292, Wis. Stats., and ss. NR 110.25, NR 507.14 and NR 716.15, Wis. Admin. Code

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DNR Point ID No.	Point Name ¹	WUWN ² (if app.)	Type	Status	Gradient	Enf. Stats. Y/N.	Construction Date	Elevations msl (ft)		Well Casing			Well Screen Length (ft)	Well (Pt) Total Length ⁵ (ft)	Coordinates ^{6,7,8,9}	
								Ground Surface	Well Top (of casing)	Type	Diam ³ (in)	Length ⁴ (ft)			Y / Lat / Northing	X / Long / Easting
129	MW-16WT	WC336	11	A			09/21/2022	1184.7	1187.41	P	2	64.9	10	74.9	1746673.3	583157.3
131	MW-16	WC337	12	A			08/25/2022	1184.3	1186.92	P	2	91.9	5	96.9	1746669.6	583147.8
133	MW-17WT	WC338	11	A			09/26/2022	1196.4	1199.18	P	2	76.9	10	86.9	1746684.9	582907.9
FU046	P-1 (Facility)	201	13	A			12/10/1992			S	6					
8IW73 0	P-2 (Williams)	202	13	A			07/10/1969			S	6					
	Sedimentation Basin	502	22	A												
	Leachate Storage Tank	300	23	A											1745623.2	583001.6
	Lys-1	340	14	A											1745918.7	1745918.7
	Lys-2	341	14	A											1746103.3	582916.5
	Lys-3	342	14	A											1746261.9	582892.9
	LHW-1	310	24	A											1745934.8	583130.8
	LHW-2	314	24	A											1745941.7	583452.2
	LHW-3	318	24	A											1746129.7	583120.3
	LHW-4	322	24	A											1746077.0	583793.7
	LHW-5	326	24	A											1746365.6	583124.4
	LHW-6	330	24	A											1746372.4	583461.2
	GP-1	460	51	A											1745680.9	583357.5
	GP-2	462	51	A											1745951.2	583821.2
	GP-3	464	51	A											1746000.6	582918.3

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¹ Include previous name as well if one exists. ² Wisconsin Unique Well Number. ³ Well Casing Diameter measures inside diameter. ⁴ Length of well casing from top of casing to top of screen. ⁵ Total length of well from top of casing to bottom of well. <i>Should equal sum of well casing length and screen length.</i>	⁶ Identify Coordinate Reference System (only one system may be used per site): ☐ Lat/Long (Decimal Degrees) WGS84 (min. 8 digits total w/ 6 right of decimal, e.g., -89.123456) ☐ State Plane (min. 2 digits right of decimal) ☐ North ☐ Central ☒ South ☐ Wisc. Transverse Mercator WTM91 (min. 2 digits right of decimal) ☐ Local County Coord. Sys. (WISCRS) (min. digits vary by county)	⁷ Identify Projection Datum and units* ☐ NAD83 ☐ NAD27 ☐ NAD83(91) ☒ NAD83(11) ☐ Other Describe: Units used for State Plane, WTM or County Coord. Sys: ☐ meters ☒ feet *NOTE: A datum and units are not required for Lat/Long	⁸ Identify the Method Used to Determine the Coordinates: ☒ GPS001-Survey grade ☐ GPS003-Mapping grade/real-time differential correction ☐ GPS004-Mapping grade/post processing ☐ SRV001-Classical terrestrial surveying techniques ☐ OTH001 (Other), Describe:	⁹ Y / Lat / Northing describe the vertical axis. X / Long / Easting describe the horizontal axis. (include "-" where needed, e.g., -89.123456)
Remarks:				

INSTRUCTIONS FOR COMPLETING THE GROUNDWATER MONITORING WELL AND POINT INFORMATION FORM (#4400-089)

When completed, this form provides a record of information for each well or sampling point that is part of a facility's environmental monitoring program. It provides the facility or consultant with a means of presenting point information required by the Department in a consistent format. This form should be updated as new points are added to the monitoring program or new information becomes available (e.g., re-surveyed elevation for existing points).

Complete the form with the necessary information as described below:

Facility Name: Enter the name of the site or landfill.

County: Enter the county the site or landfill is located.

Facility ID Number (FID): Enter the 9-digit Facility ID (FID) assigned to the site.

License/Permit/Monitoring Number: Enter the number assigned by the Department to the facility. If unknown, leave blank.

Date: Enter the date on which the form is completed (mm/dd/yyyy).

Completed By: Enter the name and firm of person completing the form.

DNR Point ID Number: Enter the 3-digit number assigned to the point by the Department, for use by the Department.

Point Name: Enter the common name given to the point by the facility or consultant; e.g. MW-2, GP-5. If the point had a previous name, please include and identify as such.

Wisconsin Unique Well Number (WUWN): Enter the Wisconsin Unique Well Number assigned to groundwater monitoring and private wells. WUWNs are available from the Department and are to be assigned to all newly installed monitoring and private wells.

Type: Enter the Numerical code describing the type of well or sampling point. Point type codes range from 11 to 99. *See list of Point Types beginning on page 4.*

Status: Enter the status of the well using the following codes:

A	–	A ctively monitored point
I	–	I nactive point (existing point not currently being monitored)
P	–	P ermanently abandoned point
L	–	P Lanned.

INSTRUCTIONS FOR COMPLETING THE GROUNDWATER MONITORING WELL AND POINT INFORMATION FORM (#4400-089)

Gradient Position: Enter the location of the well in the groundwater flow system relative to the disposal site, spill, etc. *Use one of the six letters designated below. If gradient position is not known or does not apply to the type of point, leave blank.*

U = Up gradient
S = Side gradient

D = Down gradient
X = Side-to-up gradient

Y = Side-to-down gradient
N = Not known

Enf. Stds. Apply: Enter "Y" if enforcement standards apply at this well. Enforcement standards apply to any well beyond the **Design Management Zone (DMZ)** or the property boundary of the facility or to a water supply well. For spills, enforcement standards apply at every point at which groundwater is monitored. (For more information, see s. NR 140.22, Wis. Adm. Code.) *If the application of enforcement standards is not relevant to the type of point entered, leave blank.*

Construction Date: Enter the installation date of the point.

Elevations:

Ground Surface: The elevation, in feet, of the ground surface adjacent to the well using mean sea level (MSL) based on national geodetic vertical survey (i.e., NAVD88).

Well Top (of casing): The elevation, of the top of the well casing (not top of protective pipe), in feet using MSL based on national geodetic vertical survey (i.e., NAVD88).

Well Casing:

Type: The type of pipe used: plastic (P), steel (S), or other (O).

Diam: The inside diameter of the pipe used in the well construction, in inches.

Length: The length of the well casing from the top of the casing to the top of the screen, measured in feet.

Well Screen Length: The length of the screen measured in feet.

Well (Point) Total Length: The total length of the well (or point) from the top of the casing to the bottom of the well, measured in feet. *Should equal sum of well casing length and screen length.*

Point Coordinate Reference Systems: Only one coordinate reference system may be used on the form. Allowable coordinate systems are Lat/Long (in decimal degrees [DD] only), State Plane and Wisconsin Transverse Mercator (WTM91). County coordinate systems (WISCRS) may also be used. Local grid coordinates are *not* accepted. The field named "Y / Lat / Northing" describe the vertical axis and the field "X / Long / Easting" describe the horizontal axis.

INSTRUCTIONS FOR COMPLETING THE GROUNDWATER MONITORING WELL AND POINT INFORMATION FORM (#4400-089)

Identify the coordinate reference system used:

- Latitude/Longitude WGS84 (Decimal Degrees, minimum 8 digits total w/ 6 right of decimal)
- State Plane (min. 2 digits right of decimal):
 - North
 - Central
 - South
- Wisc. Transverse Mercator (WTM91, min. 2 digits right of decimal)
- Local County Coordinate System (aka Wisconsin Coordinate Reference System (WISCRS), minimum digits vary by county)

Identify the projection datum used (listed below) by checking the appropriate box on the bottom of the form.

NOTE: A datum is not required for Lat/Long.

- NAD83
- NAD27
- NAD83(91)
- NAD83(11)
- Other

Identify the units used, meters or feet, for State Plane, WTM or Local County Coordinate System.

Identify the method used to determine the coordinates by checking the appropriate box on the bottom of the form.
The options are:

- GPS001-Survey grade GPS
- GPS003-Mapping grade GPS with real-time differential correction
- GPS004-Mapping grade GPS with post processing differential correction
- SRV001-Classical terrestrial surveying techniques
- OTH001 (Other)

Remarks: Include any comments applicable to the submittal (e.g., Re-surveyed top of well casing elevation).

List of Point Types

- 11 (mw) Water table observation well (monitoring well screen intersecting the water table) (non-Subtitle D well)
- 12 (pz) Piezometer (monitoring well with screen sealed below the water table) (non-Subtitle D well)
- 13 (pw) Private well - potable water supply
- 14 (ly) Lysimeter
- 15 (sp) Spring
- 16 (rp) Resistivity probe
- 17 (gc) Gradient control
- 18 (at) Aquifer test well
- 19 (pn) Private well-non potable
- 21 (fs) Flow or seep
- 22 (sw) Surface water
- 23 (lc) Leachate collection system
- 24 (lh) Leachate head well
- 25 (lg) Leachate and gas combo
- 26 (ew) Groundwater extraction well
- 27 (he) Horizontal groundwater extraction well

**INSTRUCTIONS FOR COMPLETING THE GROUNDWATER MONITORING
WELL AND POINT INFORMATION FORM (#4400-089)**

- 28 (hw) Horizontal monitoring well
- 29 (ha) Horizontal vapor extraction well
- 31 (us) Upstream
- 32 (ms) Mid-site
- 33 (ds) Downstream
- 34 (ro) Run-off
- 35 (im) Impounded
- 36 (sg) Staff gauge
- 41 (tr) Treated
- 42 (pr) Pretreated
- 45 (pp) Private well primary treatment
- 46 (ps) Private well secondary treatment
- 49 (sh) Settlement hub
- 51 (gp) Gas probe
- 52 (nl) Non-landfill structure
- 53 (ge) Gas extraction system
- 54 (gu) Gas utilization or destruction
- 55 (gc) Gas condensate
- 56 (sc) Site conditions collection
- 57 (sv) Soil venting well (includes both soil vapor extraction and bioventing, includes both extraction and unsaturated zone gas phase injection wells installed in soil or fill, but not refuse)
- 58 (gm) Gas sample monitoring point
- 59 (sc) Stone column gas extraction well
- 61 (ij) Injection well (injection of liquids not gases)
- 62 (as) In situ air sparging well (injection well to inject gases into the aquifer)
- 63 (uv) Unterdruck Verdampfer Brunnen (UVB) wells (sparging wells where the gases remain in the well and are not injected into the aquifer)
- 64 (le) Groundwater and light non-aqueous phase liquid (LNAPL) extraction well
- 65 (de) Groundwater and dense non-aqueous phase liquid (DNAPL) extraction well
- 66 (ve) Vacuum enhanced groundwater extraction wells
- 67 (vi) Vacuum enhanced groundwater and LNAPL extraction well
- 68 (vd) Vacuum enhanced groundwater and DNAPL extraction well
- 71 (dw) Subtitle D water table observation well (see 11/mw)
- 72 (dp) Subtitle D piezometer (see 12/pz)
- 80 (mc) Municipal water supply well: cities, villages, and sanitary districts
- 81 (oc) Community-other-than-municipal (OTM) water supply well: mobile home parks, apartments, subdivisions, and condominium complexes
- 85 (nn) Noncommunity-Nontransient water supply well (schools, day care centers, and industries) A Noncommunity water system that regularly serves at least 25 of the same persons over 6 months per year
- 86 (tn) Noncommunity-Transient water supply well (motels, restaurants, parks, taverns, churches, and campgrounds) A Noncommunity water system that serves at least 25 people at least 60 days of the year
- 99 (ot) Other

Appendix N

Well Construction Logs within 300 feet of Proposed Expansion

Facility/Project Name <u>VERNON COUNTY</u>	Local Grid Location of Well ft. <u>N</u> ft. <u>E</u> ft. <u>S</u> ft. <u>W</u>	Well Name <u>MW-3</u>
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well ☐ 11 Piezometer ☒ 12	Section Location of Waste/Source <u>NW 1/4 of SE 1/4 of Sec. 15, T. 13 N, R. 4 E W.</u>	Date Well Installed <u>02/01/88</u> m m d d y y
Distance Well Is From Waste/Source Boundary ft. _____	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) <u>ACE WELL</u>
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation <u>1235.39</u> ft. MSL	1. Cap and lock? ☒ Yes ☐ No
B. Well casing, top elevation <u>1235.32</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>4.0</u> ft. c. Material: Steel ☒ 04 Other ☐
C. Land surface elevation <u>1233.1</u> ft. MSL	d. Additional protection? ☐ Yes ☒ No If yes, describe: _____
D. Surface seal, bottom <u>1228.1</u> ft. MSL or <u>5.0</u> ft.	3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐
12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☒	4. Material between well casing and protective pipe: Bentonite ☐ 30 Annular space seal ☐
13. Sieve analysis attached? ☐ Yes ☒ No	5. Annular space seal: a. Granular Bentonite ☐ 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35 c. _____ Lbs/gal mud weight ... Bentonite slurry ☐ 31 d. <u>50</u> % Bentonite ... Bentonite-cement grout ☒ 50 e. <u>53.74</u> Ft ³ volume added for any of the above
14. Drilling method used: Rotary ☒ 50 Hollow Stem Auger ☐ 41 Other ☐	f. How installed: Tremie ☐ 01 Tremie pumped ☒ 02 Gravity ☐ 08
15. Drilling fluid used: Water ☐ 02 Air ☒ 01 Drilling Mud ☐ 03 None ☐ 99	6. Bentonite seal: a. Bentonite granules ☐ 33 b. ☐ 1/4 in. ☐ 3/8 in. ☒ 1/2 in. Bentonite pellets ☐ 32 c. <u>Volclay</u> Other ☐
16. Drilling additives used? ☒ Yes ☐ No Describe <u>QUICK FOAM</u>	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
17. Source of water (attach analysis): <u>HILLSBORO CITY WATER</u>	8. Filter pack material: Manufacturer, product name and mesh size a. <u>SAND</u> b. Volume added <u>8.1</u> ft ³
E. Bentonite seal, top <u>1071.7</u> ft. MSL or <u>161.4</u> ft.	9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐
F. Fine sand, top _____ ft. MSL or _____ ft.	10. Screen material: <u>PVC Sch 80</u> a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
G. Filter pack, top <u>1067.2</u> ft. MSL or <u>165.9</u> ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: _____ ft.
H. Screen joint, top <u>1058.2</u> ft. MSL or <u>174.9</u> ft.	11. Backfill material (below filter pack): None ☐ 14 Other ☐
I. Well bottom <u>1053.2</u> ft. MSL or <u>179.9</u> ft.	
J. Filter pack, bottom _____ ft. MSL or _____ ft.	
K. Borehole, bottom <u>1053.1</u> ft. MSL or <u>180.0</u> ft.	
L. Borehole, diameter <u>6.0</u> in.	
M. O.D. well casing <u>2.40</u> in.	
N. I.D. well casing <u>1.80</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature William R. Vach Firm CENTRAL WISCONSIN ENGINEERS INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Facility/Project Name VERNON COUNTY	Local Grid Location of Well ft. ☐ N ☐ S ☐ E ☐ W	Well Name MW-4
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 15, T. 13 N, R. 4 E W.	Date Well Installed 01/28/88 m m d d y y
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) ACE WELL
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation 1235.31 ft. MSL	1. Cap and lock? ☒ Yes ☐ No
B. Well casing, top elevation 1235.01 ft. MSL	2. Protective cover pipe: a. Inside diameter: 6.0 in. b. Length: 4.0 ft. c. Material: Steel ☒ 04 Other ☐
C. Land surface elevation 1233.2 ft. MSL	d. Additional protection? ☐ Yes ☒ No If yes, describe: _____
D. Surface seal, bottom 1238.2 ft. MSL or 5.0 ft.	3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐
12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☒	4. Material between well casing and protective pipe: Bentonite ☐ 30 Annular space seal ☐ Other ☐
13. Sieve analysis attached? ☐ Yes ☒ No	5. Annular space seal: a. Granular Bentonite ☐ 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35 c. _____ Lbs/gal mud weight ... Bentonite slurry ☐ 31 d. 50 % Bentonite ... Bentonite-cement grout ☒ 50 e. 26.7 Ft ³ volume added for any of the above f. How installed: Tremie ☐ 01 Tremie pumped ☒ 02 Gravity ☐ 08
14. Drilling method used: Rotary ☒ 50 Hollow Stem Auger ☐ 41 Other ☐	6. Bentonite seal: a. Bentonite granules ☐ 33 b. ☐ 1/4 in. ☐ 3/8 in. ☒ 1/2 in. Bentonite pellets ☒ 32 c. VOICLAY Other ☐
15. Drilling fluid used: Water ☐ 02 Air ☒ 01 Drilling Mud ☐ 03 None ☐ 99	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
16. Drilling additives used? ☒ Yes ☐ No Describe QUICK FOAM	8. Filter pack material: Manufacturer, product name and mesh size a. SAND b. Volume added 5.4 ft ³
17. Source of water (attach analysis): HILLSBORO CITY WELL	9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐
E. Bentonite seal, top 1099.7 ft. MSL or 133.5 ft.	10. Screen material: PVC Sch 80 a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
F. Fine sand, top _____ ft. MSL or _____ ft.	b. Manufacturer _____ c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
G. Filter pack, top 1096.9 ft. MSL or 136.3 ft.	11. Backfill material (below filter pack): None ☐ 14 Other ☐
H. Screen joint, top 1089.2 ft. MSL or 144.0 ft.	
I. Well bottom 1079.2 ft. MSL or 154.0 ft.	
J. Filter pack, bottom _____ ft. MSL or _____ ft.	
K. Borehole, bottom 1073.2 ft. MSL or 160.0 ft.	
L. Borehole, diameter 6.0 in.	
M. O.D. well casing 2.40 in.	
N. I.D. well casing 2.00 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature William R. Vlach Firm CENTRAL WISCONSIN ENGINEERS

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Facility/Project Name VERNON COUNTY	Local Grid Location of Well ft. ☐ N ☐ S ☐ E ☐ W	Well Name MW-40
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or _____	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	St. Plane _____ ft. N. _____ ft. E.	Date Well Installed 01/28/88 m m d d y y
Distance Well Is From Waste/Source Boundary ft. _____	Section Location of Waste/Source NW 1/4 of SE 1/4 of Sec. 15, T. 13 N, R. 4 W.	Well Installed By: (Person's Name and Firm) ACE WELL
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation 1235.31 ft. MSL	1. Cap and lock? ☒ Yes ☐ No
B. Well casing, top elevation 1235.19 ft. MSL	2. Protective cover pipe: a. Inside diameter: 6.0 in. b. Length: 4.0 ft. c. Material: Steel ☒ 04 Other ☐
C. Land surface elevation 1233.2 ft. MSL	d. Additional protection? ☐ Yes ☐ No If yes, describe: _____
D. Surface seal, bottom 1228.2 ft. MSL or 5.0 ft.	3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐
12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☒	4. Material between well casing and protective pipe: Bentonite ☐ 30 Annular space seal ☐ Other ☐
13. Sieve analysis attached? ☐ Yes ☒ No	5. Annular space seal: a. Granular Bentonite ☐ 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35 c. _____ Lbs/gal mud weight ... Bentonite slurry ☐ 31 d. 50 % Bentonite ... Bentonite-cement grout ☒ 50 e. 26.7 Ft ³ volume added for any of the above f. How installed: Tremie ☐ 01 Tremie pumped ☒ 02 Gravity ☐ 08
14. Drilling method used: Rotary ☒ 50 Hollow Stem Auger ☐ 41 Other ☐	6. Bentonite seal: a. Bentonite granules ☐ 33 b. ☐ 1/4 in. ☐ 3/8 in. ☒ 1/2 in. Bentonite pellets ☒ 32 c. Volclay Other ☐
15. Drilling fluid used: Water ☐ 02 Air ☒ 01 Drilling Mud ☐ 03 None ☐ 99	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
16. Drilling additives used? ☒ Yes ☐ No Describe Quick Foam	8. Filter pack material: Manufacturer, product name and mesh size a. SAND b. Volume added 12.15 ft ³
17. Source of water (attach analysis): HILLSBORO CITY WATER	9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐
E. Bentonite seal, top 1159.1 ft. MSL or 74.1 ft.	10. Screen material: PVC Sch 80 a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
F. Fine sand, top _____ ft. MSL or _____ ft.	b. Manufacturer _____ c. Slot size: 0.010 in. d. Slotted length: 10.0 ft.
G. Filter pack, top 1156.1 ft. MSL or 77.1 ft.	11. Backfill material (below filter pack): None ☐ 14 Other ☐
H. Screen joint, top 1148.3 ft. MSL or 84.9 ft.	
I. Well bottom 1138.3 ft. MSL or 94.9 ft.	
J. Filter pack, bottom _____ ft. MSL or _____ ft.	
K. Borehole, bottom 1073.2 ft. MSL or 160.0 ft.	
L. Borehole, diameter 6.0 in.	
M. O.D. well casing 24.0 in.	
N. I.D. well casing 18.0 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature William R. Abel Firm CENTRAL WISCONSIN ENGINEERS

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Facility/Project Name Vernon County	Grid Location 863.8 ft. ☒ N. ☐ S. 1794.6 ft. ☒ E. ☐ W.	Well Name MW-5A
Facility License, Permit or Monitoring Number 03-68		Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	Section Location SE 1/4 of SW 1/4 of Section 15	Date Well Installed 11 / 08 / 89 m m d d y y
Distance Well Is From Waste/Source Boundary 55' From Prop. Waste Limits ft.	T 13 N, R 4 ☐ E ☒ W	Well Installed By: (Person's Name and Firm) Gus Pech
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No	Location of Well Relative to Waste/Source ☐ Upgradient ☒ Sidegradient ☐ Downgradient ☐ Not Known	Exploration Technology, Inc.

A. Protective pipe, top elevation 1225.81 ft. MSL	1. Cap and lock? ☒ Yes ☐ No
B. Well casing, top elevation 1226.17 ft. MSL	2. Protective cover pipe: a. Inside diameter: 4.0 in. b. Length: 5.0 ft. c. Material: Steel ☒ 04 Other ☐ d. Additional protection? If yes, describe:
C. Land surface elevation 1224.0 ft. MSL	3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐
D. Surface seal, bottom 1446.7 ft. MSL or 79.5 ft.	4. Material between well casing and protective pipe: Bentonite ☒ 30 Annular space seal ☐ Other ☐
USCS classification of soil near screen: ☐ GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☒ Bedrock	5. Annular space seal: Granular Bentonite ☒ 33 Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35 Lbs/gal mud weight ... Bentonite slurry ☐ 31 % Bentonite ... Bentonite-cement grout ☐ 50 13.5 Ft ³ volume added for any of the above How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
E. Sieve analysis attached? ☐ Yes ☒ No	6. Bentonite seal: Bentonite granules ☐ 33 ☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32 Other ☐
14. Drilling method used: Rotary ☒ 50 Hollow Stem Auger ☐ 41 Other ☐	7. Fine sand material: Manufacturer, product name and mesh size Ottawa Sand Volume added 0.4 ft ³
15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☒ 03 None ☐ 99	8. Filter pack material: Manufacturer, product name and mesh size Waupaca Materials No. 30 Flint Volume added 3.5 ft ³
16. Drilling additives used? ☒ Yes ☐ No Describe Foam	9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐
17. Source of water (attach analysis): City of Viroqua Municipal Water	10. Screen material: Sch. 80 PVC Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
Pentonite seal, top 1146.7 ft. MSL or 79.5 ft.	Manufacturer Northern Air & Supply Slot size: 0.010 in. Slotted length: 13.5 ft.
Fine sand, top 1145.7 ft. MSL or 80.5 ft.	11. Backfill material (below filter pack): None ☒ Other ☐
Filter pack, top 1143.7 ft. MSL or 82.5 ft.	
Well screen, top 1137.9 ft. MSL or 88.3 ft.	
Well screen, bottom 1122.9 ft. MSL or 103.3 ft.	
Filter pack, bottom 1122.9 ft. MSL or 103.3 ft.	
Borehole, bottom 1122.9 ft. MSL or 103.3 ft.	
Borehole, diameter 6.0 in.	
O.D. well casing 2.40 in.	
I.D. well casing 2.00 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Karl Thornton* Firm *Central Wisconsin Engineers*

Use complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with

ch. 14, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation.

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Facility/Project Name <u>VERNON COUNTY</u>	Local Grid Location of Well _____ ft. ☐ N _____ ft. ☐ E _____ ft. ☐ S _____ ft. ☐ W	Well Name <u>MW-5</u>
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N, _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	Section Location of Waste/Source <u>SW 1/4 of SE 1/4 of Sec. 15, T. 13 N, R. 4 E, W.</u>	Date Well Installed <u>02/16/88</u> m m d d y y
Distance Well Is From Waste/Source Boundary _____ ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) <u>ACE WELL</u>
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

- A. Protective pipe, top elevation 1226.50 ft. MSL
- B. Well casing, top elevation 1225.32 ft. MSL
- C. Land surface elevation 1223.2 ft. MSL
- D. Surface seal, bottom 1218.2 ft. MSL or 5.0 ft.
1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 6.0 in.
b. Length: 5.0 ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☒ 50
Hollow Stem Auger ☐ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☒ 01
Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☒ Yes ☐ No

Describe Quite Foam

17. Source of water (attach analysis):

HILLSBORO CITY WATER

- E. Bentonite seal, top 1102.6 ft. MSL or 120.6 ft.
- F. Fine sand, top _____ ft. MSL or _____ ft.
- G. Filter pack, top 1091.6 ft. MSL or 131.6 ft.
- H. Screen joint, top 1082.6 ft. MSL or 140.6 ft.
- I. Well bottom 1072.6 ft. MSL or 150.6 ft.
- J. Filter pack, bottom _____ ft. MSL or _____ ft.
- K. Borehole, bottom 1043.2 ft. MSL or 180.0 ft.
- L. Borehole, diameter 6.0 in.
- M. O.D. well casing 2.40 in.
- N. I.D. well casing 1.80 in.
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ... Bentonite slurry ☐ 31
d. 50 % Bentonite ... Bentonite-cement grout ☒ 50
e. 40.10 Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☒ 1/2 in. Bentonite pellets ☒ 32
c. Volclay Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. SAND
b. Volume added 18.09 ft³
9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ☒ 24
Other ☐
10. Screen material: PVC Sch 80
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
- b. Manufacturer _____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☐ 14
Other ☐

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Signature William R. ... Firm CENTRAL WISCONSIN ENGINEERS, INC.

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Facility/Project Name <u>VERNON COUNTY</u>	Local Grid Location of Well ft. <u>8</u> N. <u>8</u> W.	Well Name <u>MW-6</u>
Facility License, Permit or Monitoring Number	Grid Origin Location Lat. _____ Long. _____ or St. Plane _____ ft. N. _____ ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well ☐ 11 Piezometer ☒ 12	Section Location of Waste/Source <u>N 1/4 of SE 1/4 of Sec. 15, T. 13 N, R. 4</u>	Date Well Installed <u>02/19/88</u> m m d d y y
Distance Well Is From Waste/Source Boundary ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm) <u>ACE WELL</u>
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation <u>1235.47</u> ft. MSL	1. Cap and lock? ☒ Yes ☐ No
B. Well casing, top elevation <u>1235.7</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>4.0</u> ft. c. Material: Steel ☒ 04 Other ☐
C. Land surface elevation <u>1233.0</u> ft. MSL	d. Additional protection? ☐ Yes ☒ No If yes, describe: _____
D. Surface seal, bottom <u>1228.0</u> ft. MSL or <u>5.0</u> ft.	3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐
12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☒	4. Material between well casing and protective pipe: Bentonite ☐ 30 Annular space seal ☐
13. Sieve analysis attached? ☐ Yes ☒ No	5. Annular space seal: a. Granular Bentonite ☐ 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35 c. _____ Lbs/gal mud weight ... Bentonite slurry ☐ 31 d. <u>50</u> % Bentonite ... Bentonite-cement grout ☒ 50 e. <u>80.2</u> Ft ³ volume added for any of the above
14. Drilling method used: Rotary ☒ 50 Hollow Stem Auger ☐ 41 Other ☐	f. How installed: Tremie ☐ 01 Tremie pumped ☒ 02 Gravity ☐ 08
15. Drilling fluid used: Water ☐ 02 Air ☒ 01 Drilling Mud ☐ 03 None ☐ 99	6. Bentonite seal: a. Bentonite granules ☐ 33 b. ☐ 1/4 in. ☐ 3/8 in. ☒ 1/2 in. Bentonite pellets ☒ 32 c. <u>Volclay</u> Other ☐
16. Drilling additives used? ☒ Yes ☐ No Describe <u>QUICK FOAM</u>	7. Fine sand material: Manufacturer, product name & mesh size a. _____ b. Volume added _____ ft ³
17. Source of water (attach analysis): <u>HILLSBORO CITY WELL</u>	8. Filter pack material: Manufacturer, product name and mesh size a. <u>SAND</u> b. Volume added <u>6.75</u> ft ³
E. Bentonite seal, top <u>1046.0</u> ft. MSL or <u>187.0</u> ft.	9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐
F. Fine sand, top _____ ft. MSL or _____ ft.	10. Screen material: <u>Sch 80 PVC</u> a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐
G. Filter pack, top <u>1042.0</u> ft. MSL or <u>191.0</u> ft.	b. Manufacturer _____ c. Slot size: <u>0.010</u> in. d. Slotted length: _____ ft.
H. Screen joint, top <u>1035.7</u> ft. MSL or <u>197.3</u> ft.	11. Backfill material (below filter pack): None ☐ 14 Other ☐
I. Well bottom <u>1025.7</u> ft. MSL or <u>202.3</u> ft.	
J. Filter pack, bottom _____ ft. MSL or _____ ft.	
K. Borehole, bottom <u>1023.0</u> ft. MSL or <u>210.0</u> ft.	
L. Borehole, diameter <u>6.0</u> in.	
M. O.D. well casing <u>2.40</u> in.	
N. I.D. well casing <u>1.80</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

CENTRAL WISCONSIN ENGINEERS

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Facility/Project Name <u>Vernon Co.</u>		Grid Location 215.7 ft. ☒ N. ☐ S. 1656.6 ft. ☒ E. ☐ W.		Well Name MW-10	
Facility License, Permit or Monitoring Number <u>03268</u>				Wis. Unique Well Number _____ DNR Well Number _____	
Type of Well Water Table Observation Well ☐ 11 Piezometer ☒ 12		Section Location SE 1/4 of SW 1/4 of Section 15 T 13 N, R 4 ☐ E ☒ W		Date Well Installed <u>09</u> / <u>15</u> / <u>89</u> m m d d y y	
Distance Well Is From Waste/Source Boundary 140' From Prop. Waste Limits		Location of Well Relative to Waste/Source ☒ Upgradient ☐ Sidegradient ☐ Downgradient ☐ Not Known		Well Installed By: (Person's Name and Firm) <u>Gus Pech</u> <u>Exploration Technology Inc.</u>	
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No					

A. Protective pipe, top elevation <u>1217.50</u> ft. MSL B. Well casing, top elevation <u>1217.45</u> ft. MSL C. Land surface elevation <u>1215.6</u> ft. MSL D. Surface seal, bottom <u>1041.0</u> ft. MSL or <u>176.5</u> ft. E. USCS classification of soil near screen: ☐ GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☒ Bedrock F. Sieve analysis attached? ☐ Yes ☒ No G. Drilling method used: Rotary ☒ 50 Hollow Stem Auger ☐ 41 Other ☐ _____ H. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☒ 03 None ☐ 99 I. Drilling additives used? ☐ Yes ☒ No J. Describe _____ K. Source of water (attach analysis): <u>City of Wiroqua Municipal Water</u>	
	1. Cap and lock? ☒ Yes ☐ No 2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel ☒ 04 Other ☐ _____ d. Additional protection? ☐ Yes ☒ No If yes, describe: _____ 3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐ _____ 4. Material between well casing and protective pipe: Bentonite ☒ 30 Annular space seal ☐ _____ Other ☐ _____ 5. Annular space seal: Granular Bentonite ☒ 33 Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35 Lbs/gal mud weight Bentonite slurry ☐ 31 % Bentonite Bentonite-cement grout ☐ 50 <u>29.5</u> Ft³ volume added for any of the above How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08 6. Bentonite seal: Bentonite granules ☐ 33 ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32 <u>No. 8 Bentonite Hole Plug</u> Other ☒ _____ 7. Fine sand material: Manufacturer, product name and mesh size <u>Ottawa Sand</u> Volume added <u>0.4</u> ft³ 8. Filter pack material: Manufacturer, product name and mesh size <u>Waupaca Materials No. 30 Flint</u> Volume added <u>0.9</u> ft³ 9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐ _____ 10. Screen material: <u>Sch. 80 PVC</u> Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ _____ Manufacturer <u>Northern Air & Supply</u> Slot size: <u>0.010</u> in. Slotted length: <u>4.5</u> ft. 11. Backfill material (below filter pack): None ☐ <u>No. 30 Flint Sand</u> Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Rich Thornton Firm Central Wisconsin Engineers

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Facility/Project Name <u>Vernon Co.</u>	Grid Location <u>204.8</u> ft. ☒ N. ☐ S. <u>1652.4</u> ft. ☒ E. ☐ W.	Well Name <u>MW-11</u>
Ability License, Permit or Monitoring Number <u>03268</u>		Wis. Unique Well Number <u> </u> DNR Well Number <u> </u>
Type of Well Water Table Observation Well ☐ 11 Piezometer ☒ 12	Section Location <u>SE</u> 1/4 of <u>SW</u> 1/4 of Section <u>15</u> T <u>13</u> N. R <u>4</u> ☐ E ☒ W	Date Well Installed <u>09</u> / <u>29</u> / <u>89</u> m m d d y y
Distance Well Is From Waste/Source Boundary <u>150'</u> From Prop. Waste Unit ft.	Location of Well Relative to Waste/Source ☒ Upgradient ☐ Sidegradient ☐ Downgradient ☐ Not Known	Well Installed By: (Person's Name and Firm) <u>Gus Pech</u> <u>Exploration Technology, Inc.</u>
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No		

A. Protective pipe, top elevation <u>1218.00</u> ft. MSL	1. Cap and lock? ☒ Yes ☐ No
B. Well casing, top elevation <u>1218.54</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel ☒ 04 Other ☐ <u> </u>
C. Land surface elevation <u>1216.4</u> ft. MSL	d. Additional protection? ☐ Yes ☒ No If yes, describe: <u> </u>
D. Surface seal, bottom <u>1080.0</u> ft. MSL or <u>138.5</u> ft.	3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐ <u> </u>
USCS classification of soil near screen: ☐ GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☒ Bedrock	4. Material between well casing and protective pipe: Bentonite ☒ 30 Annular space seal ☐ <u> </u> Other ☐ <u> </u>
13. Sieve analysis attached? ☐ Yes ☒ No	5. Annular space seal: Granular Bentonite ☒ 33 Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35 Lbs/gal mud weight ... Bentonite slurry ☐ 31 % Bentonite ... Bentonite-cement grout ☐ 50 <u>23.0</u> Ft ³ volume added for any of the above
14. Drilling method used: Rotary ☒ 50 Hollow Stem Auger ☐ 41 Other ☐ <u> </u>	How installed: Tremie ☒ 01 Tremie pumped ☐ 02 Gravity ☒ 08
15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☒ 03 None ☐ 99	6. Bentonite seal: Bentonite granules ☐ 33 ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32 No. 8 Bentonite Hole Plug Other ☒ <u> </u>
16. Drilling additives used? ☐ Yes ☒ No	7. Fine sand material: Manufacturer, product name and mesh size <u>Ottawa Sand</u> Volume added <u>0.5</u> ft ³
Describe <u> </u>	8. Filter pack material: Manufacturer, product name and mesh size <u>Waupaca Materials No. 30 Flint</u> Volume added <u>5.5</u> ft ³
17. Source of water (attach analysis): <u> </u>	9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐ <u> </u>
Bentonite seal, top <u>N/A</u> ft. MSL or <u>N/A</u> ft.	10. Screen material: <u>Sch. 80 PVC</u> Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ <u> </u>
Fine sand, top <u>1080.0</u> ft. MSL or <u>138.5</u> ft.	Manufacturer <u>Northern Air & Supply</u> Slot size: <u>0.010</u> in. Slotted length: <u>13.5</u> ft.
Filter pack, top <u>1077.0</u> ft. MSL or <u>141.5</u> ft.	11. Backfill material (below filter pack): None ☐ <u>No. 30 Flint Sand</u> Other ☐
Well screen, top <u>1071.0</u> ft. MSL or <u>147.5</u> ft.	
Well screen, bottom <u>1056.0</u> ft. MSL or <u>162.5</u> ft.	
Filter pack, bottom <u>1056.0</u> ft. MSL or <u>162.5</u> ft.	
Borehole, bottom <u>1053.0</u> ft. MSL or <u>165.5</u> ft.	
Borehole, diameter <u>6.0</u> in.	
O.D. well casing <u>2.40</u> in.	
I.D. well casing <u>2.00</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Kirk Thornton Firm Central Wisconsin Engineers

Use complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 14, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation.

NOTE: Shaded areas are for DNR use only. See instructions for more information.

Facility/Project Name <u>Vernon Co.</u>		Grid Location 200.0 ft. ☒ N. ☐ S. 1647.2 ft. ☒ E. ☐ W.		Well Name MW-12	
Facility License, Permit or Monitoring Number <u>03268</u>				Wis. Unique Well Number _____ DNR Well Number _____	
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12		Section Location SE 1/4 of SW 1/4 of Section 15		Date Well Installed <u>09</u> / <u>22</u> / <u>89</u> m m d d y y	
Distance Well Is From Waste/Source Boundary 155' From Prop. Waste Limits ft.		T <u>13</u> N, R <u>4</u> ☐ E ☒ W		Well Installed By: (Person's Name and Firm) Gus Pech	
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No		Location of Well Relative to Waste/Source ☒ Upgradient ☐ Sidegradient ☐ Downgradient ☐ Not Known		Exploration Technology, Inc.	

1. Protective pipe, top elevation <u>1218.10</u> ft. MSL 2. Well casing, top elevation <u>1218.36</u> ft. MSL 3. Land surface elevation <u>1216.4</u> ft. MSL 4. Surface seal, bottom <u>1142.9</u> ft. MSL or <u>75.5</u> ft. 5. USCS classification of soil near screen: ☐ GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☒ Bedrock 6. Sieve analysis attached? ☐ Yes ☒ No 7. Drilling method used: Rotary ☒ 50 Hollow Stem Auger ☐ 41 Other ☐ 8. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☒ 03 None ☐ 99 9. Drilling additives used? ☐ Yes ☒ No Describe _____ 10. Source of water (attach analysis): <u>City of Viroqua Municipal Water</u>		1. Cap and lock? ☒ Yes ☐ No 2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel ☒ 04 Other ☐ d. Additional protection? ☐ Yes ☒ No If yes, describe: _____ 3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐ 4. Material between well casing and protective pipe: Bentonite ☒ 30 Annular space seal ☐ Other ☐ 5. Annular space seal: Granular Bentonite ☒ 33 _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35 _____ Lbs/gal mud weight ... Bentonite slurry ☐ 31 _____ % Bentonite ... Bentonite-cement grout ☐ 50 <u>12.5</u> Ft ³ volume added for any of the above How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08 6. Bentonite seal: Bentonite granules ☐ 33 ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32 <u>No. 8 Bentonite Hole Plug</u> Other ☒ 7. Fine sand material: Manufacturer, product name and mesh size <u>Ottawa Sand</u> Volume added <u>0.4</u> ft ³ 8. Filter pack material: Manufacturer, product name and mesh size <u>Waupaca Materials. No. 30 Flint</u> Volume added <u>3.2</u> ft ³ 9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐ 10. Screen material: <u>Sch. 80 PVC</u> Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ Manufacturer <u>Northern Air & Supply</u> Slot size: <u>0.010</u> in. Slotted length: <u>13.5</u> ft. 11. Backfill material (below filter pack): None ☐ <u>No. 30 Flint Sand</u> Other ☐
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I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Gus Pech Firm Central Wisconsin Engineers

Use complete and return both sides of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with ch. 14, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation.

NOTE: Shaded areas are for DNR use only. See instructions for more information.

Facility/Project Name Vernon Co. Bafefill	Local Grid Location of Well 1275.90 Feet N, 1678.68 Feet E	Well Name MW-14
Facility License, Permit or Monitoring Number 03268	Grid Origin Location	Wis. Unique Well Number JX072
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	Section Location of Waste/Source SW 1/4, SE 1/4, Sec. 15, T13N, R4E	DNR Well Number 118
Distance Well Is From Waste/Source Boundary 100 ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Date Well Installed 03/12/2003
Is Well A Point of Enforcement Std. Application? ☐ Yes ☒ No		Well Installed By: (Person's Name and Firm) Daryl Karasch Traut Hydro Tech

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 6.0 in.
b. Length: 7 ft.
c. Material: Steel ☐ 04
Other ☐

d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30
Concrete ☐ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐

5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight _____ Bentonite slurry ☒ 31
d. _____ % Bentonite _____ Bentonite-cement grout ☐ 50
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08

6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name and mesh size
a. Unimin #70
b. Volume added 0.66 ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. Red Flint #40
b. Volume added 5.9 ft³

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ☒ 24
Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐

b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ☐ 14
Sand #30 ☒

A. Protective pipe, top elevation 1250.0 ft. MSL

B. Well casing, top elevation 1249.69 ft. MSL

C. Land surface elevation 1247.5 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
x _____ Other ☒ Versa Sonic

15. Drilling fluid used: Water ☒ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):
City of Viroqua Airport

E. Bentonite seal, top _____ ft. MSL or 161 ft.

F. Fine sand, top _____ ft. MSL or 166 ft.

G. Filter pack, top _____ ft. MSL or 168 ft.

H. Screen joint, top _____ ft. MSL or 170 ft.

I. Well bottom _____ ft. MSL or 185 ft.

J. Filter pack, bottom _____ ft. MSL or 185 ft.

K. Borehole, bottom _____ ft. MSL or 190 ft.

L. Borehole, diameter 7.0 in.

M. O.D. well casing 2.40 in.

N. I.D. well casing 1.94 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Ronald Brutsen

Firm Central Wisconsin Engineers & Architects

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Facility/Project Name Vernon Co. Baletill	Local Grid Location of Well 1261.80 Feet N, 1691.28 Feet E	Well Name MW-14Z
Facility License, Permit or Monitoring Number 03268	Grid Origin Location	Wis. Unique Well Number JX073
Type of Well Water Table Observation Well ☐ 11 Piezometer ☒ 12	Section Location of Waste/Source SW 1/4, SE 1/4, Sec. 15, T13N, R4E	DNR Well Number 119
Distance Well is From Waste/Source Boundary 115 ft.	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☒ Downgradient n ☐ Not Known	Date Well Installed 03/07/2003
Is Well A Point of Enforcement Std. Application? ☐ Yes ☒ No	Well Installed By: (Person's Name and Firm) Daryl Karasch Traut Hydro Tech	

A. Protective pipe, top elevation <u>1250.5</u> ft. MSL B. Well casing, top elevation <u>1250.22</u> ft. MSL C. Land surface elevation <u>1247.5</u> ft. MSL D. Surface seal, bottom _____ ft. MSL or _____ ft.	12. USCS Classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☒ 13. Sieve analysis attached? ☐ Yes ☒ No 14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☐ 41 x _____ Other ☒ Versa Sonic 15. Drilling fluid used: Water ☒ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☐ 99 16. Drilling additives used? ☐ Yes ☒ No Describe _____ 17. Source of water (attach analysis): Viroqua	1. Cap and lock? ☒ Yes ☐ No 2. Protective cover pipe: a. Inside diameter: 6.0 in. b. Length: 7 ft. c. Material: Steel ☐ 04 Other ☐ d. Additional protection? ☐ Yes ☒ No If yes, describe: _____ 3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐ 4. Material between well casing and protective pipe: Bentonite ☒ 30 Annular space seal ☐ Other ☐ 5. Annular space seal: a. Granular Bentonite ☐ 33 b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☒ 35 c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 31 d. _____ % Bentonite _____ Bentonite-cement grout ☐ 50 e. _____ Ft³ volume added for any of the above f. How installed: Tremie ☐ 01 Tremie pumped ☒ 02 Gravity ☐ 08 6. Bentonite seal: a. Bentonite Granules ☐ 33 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32 c. _____ Other ☐ 7. Fine sand material: Manufacturer, product name and mesh size a. Unimin #70 b. Volume added <u>0.66</u> ft³ 8. Filter pack material: Manufacturer, product name and mesh size a. Red Flint #40 b. Volume added <u>2.2</u> ft³ 9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐ 10. Screen material: PVC a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ b. Manufacturer <u>Johnson</u> c. Slot size: 0.010 in. d. Slotted length: 5.0 ft. 11. Backfill material (below filter pack): None ☒ 14 Other ☐
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E. Bentonite seal, top _____ ft. MSL or 194.5 ft.

F. Fine sand, top _____ ft. MSL or 199.5 ft.

G. Filter pack, top _____ ft. MSL or 201.5 ft.

H. Screen joint, top _____ ft. MSL or 203.5 ft.

I. Well bottom _____ ft. MSL or 208.5 ft.

J. Filter pack, bottom _____ ft. MSL or 210 ft.

K. Borehole, bottom _____ ft. MSL or 210 ft.

L. Borehole, diameter 7.0 in.

M. O.D. well casing 2.40 in.

N. I.D. well casing 1.94 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm Central Wisconsin Engineers & Architects

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

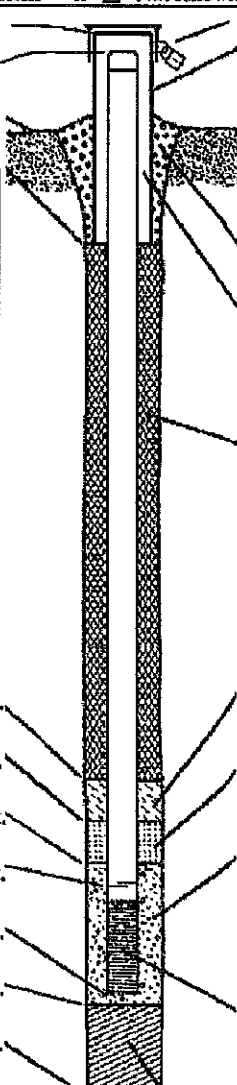
Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Vernon County Solid Waste Facility		Local Grid Location of Well 164748 ft. ☒ N. 715687 ft. ☒ E.		Well Name MW-14WT	
Facility License, Permit or Monitoring No.		Local Grid Origin ☐ (estimated: ☐) or Well Location ☐		Wis. Unique Well No. ☐ DNR Well ID No. ☐	
Facility ID		Lat. _____ Long. _____		Date Well Installed 09/20/2022	
Type of Well Well Code 11 / MW		St. Plane _____ ft. N. _____ ft. E. S/C/N		Well Installed By: Name (first, last) and Firm Ethan Rislov Braun Intertec	
Distance from Waste/ Source _____ ft.		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. ☒ E. ☒ W.		Gov. Lot Number	
Enf. Stds. Apply ☐		Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known			

A. Protective pipe, top elevation 1249.7 ft. MSL
B. Well casing, top elevation 1249.7 ft. MSL
C. Land surface elevation 1247.15 ft. MSL
D. Surface seal, bottom 1245 ft. MSL or 2 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒
13. Sieve analysis performed? ☐ Yes ☒ No
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐
15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☒ 03 None ☐ 99
16. Drilling additives used? ☐ Yes ☒ No
Describe _____
17. Source of water (attach analysis, if required):
City of Viroqua Municipal



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 006 in.
b. Length: 005 ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☒ Yes ☐ No
If yes, describe: Bumper Posts
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ... Bentonite slurry ☐ 31
d. 20 % Bentonite ... Bentonite-cement grout ☒ 50
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie ☒ 01
Tremie pumped ☐ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ NA Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. #15 sand
b. Volume added 1 ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. #40 sand
b. Volume added 4 ft³
9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ☒ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer NA
c. Slot size: 0010 in.
d. Slotted length: 0015 ft.
11. Backfill material (below filter pack): None ☒ 14
Other ☐

E. Bentonite seal, top _____ ft. MSL or 85 ft.
F. Fine sand, top _____ ft. MSL or 86 ft.
G. Filter pack, top _____ ft. MSL or 88 ft.
H. Screen joint, top _____ ft. MSL or 91 ft.
I. Well bottom _____ ft. MSL or 106 ft.
J. Filter pack, bottom _____ ft. MSL or 109 ft.
K. Borehole, bottom _____ ft. MSL or 109 ft.
L. Borehole, diameter 0006 in.
M. O.D. well casing 2.375 in.
N. I.D. well casing 1.939 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm *Braun Intertec*

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Vernon County Solid Waste Facility		Local Grid Location of Well 164382 ft. ☒ N. 715726 ft. ☒ E. ☐ W.		Well Name MW-15WT	
Facility License, Permit or Monitoring No.		Local Grid Origin (estimated: ☐) or Well Location Lat. _____ Long. _____ or _____		Wis. Unique Well No. DNR Well ID No.	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 09/20/2022 m m d d y y y y	
Type of Well Well Code 11 / MW		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. ☐ E ☐ W		Well Installed By: Name (first, last) and Firm Ethan Rislov Braun Interlec	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known		Gov. Lot Number	
Enf. Stds. Apply ☐					

A. Protective pipe, top elevation 1 2 2 3 3 8 ft. MSL		1. Cap and lock? ☒ Yes ☐ No	
B. Well casing, top elevation 1 2 2 3 2 4 ft. MSL		2. Protective cover pipe: a. Inside diameter: 0 0 6 in. b. Length: 0 0 5 ft. c. Material: Steel ☒ 0 4 Other ☐	
C. Land surface elevation 1 2 2 0 6 1 ft. MSL		d. Additional protection? ☒ Yes ☐ No If yes, describe: Bumper Posts	
D. Surface seal, bottom 1 2 1 8 ft. MSL or 2 ft.		3. Surface seal: Bentonite ☐ 3 0 Concrete ☒ 0 1 Other ☐	
12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☒		4. Material between well casing and protective pipe: Bentonite ☒ 3 0 Other ☐	
13. Sieve analysis performed? ☐ Yes ☒ No		5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3 b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 3 5 c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 3 1 d. 20 % Bentonite _____ Bentonite-cement grout ☒ 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie ☒ 0 1 Tremie pumped ☐ 0 2 Gravity ☐ 0 8	
14. Drilling method used: Rotary ☐ 5 0 Hollow Stem Auger ☒ 4 1 Other ☐		6. Bentonite seal: a. Bentonite granules ☐ 3 3 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2 c. NA Other ☐	
15. Drilling fluid used: Water ☐ 0 2 Air ☐ 0 1 Drilling Mud ☒ 0 3 None ☐ 9 9		7. Fine sand material: Manufacturer, product name & mesh size a. #15 sand b. Volume added 1 ft ³	
16. Drilling additives used? ☐ Yes ☒ No		8. Filter pack material: Manufacturer, product name & mesh size a. #40 sand b. Volume added 4.5 ft ³	
Describe _____		9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 Flush threaded PVC schedule 80 ☐ 2 4 Other ☐	
17. Source of water (attach analysis, if required): City of Viroqua Municipal		10. Screen material: PVC a. Screen type: Factory cut ☒ 1 1 Continuous slot ☐ 0 1 Other ☐	
E. Bentonite seal, top _____ ft. MSL or 68 ft.		b. Manufacturer NA c. Slot size: 0 0 1 0 in. d. Slotted length: 0 0 1 0 ft.	
F. Fine sand, top _____ ft. MSL or 69 ft.		11. Backfill material (below filter pack): None ☒ 1 4 Other ☐	
G. Filter pack, top _____ ft. MSL or 70 ft.			
H. Screen joint, top _____ ft. MSL or 75 ft.			
I. Well bottom _____ ft. MSL or 85 ft.			
J. Filter pack, bottom _____ ft. MSL or 98 ft.			
K. Borehole, bottom _____ ft. MSL or 99 ft.			
L. Borehole, diameter 0 0 0 6 in.			
M. O.D. well casing 2 3 7 5 in.			
N. I.D. well casing 2 0 4 7 in.			

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Ethan Rislov Firm Braun Interlec

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Vernon County Solid Waste Facility		Local Grid Location of Well 163940 ft. ☒ N. 715674 ft. ☒ E.		Well Name MVV-16WT	
Facility License, Permit or Monitoring No.		Local Grid Origin ☐ (estimated: ☐) or Well Location ☐		Wis. Unique Well No. ☐ DNR Well ID No. ☐	
Facility ID		Lat. _____ Long. _____ or _____		Date Well Installed 09/20/2022	
Type of Well Well Code 12 / PZ		Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. ☐ E. ☐ W.		Well Installed By: Name (first, last) and Firm Ethan Rislov Braun Intertec	
Distance from Waste/Source _____ ft.		Enf. Stds. Apply ☐		Gov. Lot Number	
		Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known			

A. Protective pipe, top elevation 1187.51 ft. MSL
B. Well casing, top elevation 1187.41 ft. MSL
C. Land surface elevation 1184.70 ft. MSL
D. Surface seal, bottom 1182 ft. MSL or 2 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

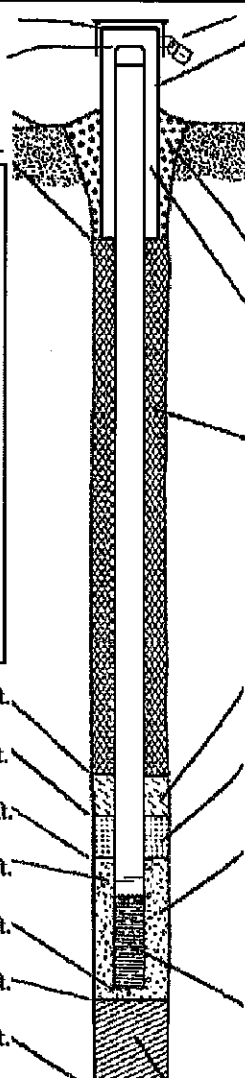
13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☒ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☒ 02 Air ☐ 01
Drilling Mud ☒ 03 None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
City of Viroqua Municipal



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 006 in.
b. Length: 005 ft.
c. Material: Steel ☒ 04
Other ☐

d. Additional protection? ☒ Yes ☐ No
If yes, describe: Bumper Posts

3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . Bentonite slurry ☐ 31
d. 20 % Bentonite Bentonite-cement grout ☒ 50
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie ☒ 01
Tremie pumped ☐ 02
Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. #15 sand
b. Volume added 1 ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. #40 sand
b. Volume added 2 ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐

b. Manufacturer NA
c. Slot size: 0010 in.
d. Slotted length: 0005 ft.

11. Backfill material (below filter pack): None ☒ 14
Other ☐

E. Bentonite seal, top _____ ft. MSL or 58 ft.
F. Fine sand, top _____ ft. MSL or 59.5 ft.
G. Filter pack, top _____ ft. MSL or 64.5 ft.
H. Screen joint, top _____ ft. MSL or 65 ft.
I. Well bottom _____ ft. MSL or 75 ft.
J. Filter pack, bottom _____ ft. MSL or 75 ft.
K. Borehole, bottom _____ ft. MSL or 76 ft.
L. Borehole, diameter 0006 in.
M. O.D. well casing 2.375 in.
N. I.D. well casing 2.047 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm Braun Intertec

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Vernon County Solid Waste Facility		Local Grid Location of Well 163930 ft. ☒ N. 715670 ft. ☒ E. ☐ S. ☐ W.		Well Name MW-16	
Facility License, Permit or Monitoring No.		Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. " Long. " or " or "		Wis. Unique Well No. <u>W C 3 3 7</u> DNR Well ID No. _____	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed <u>0 9 / 2 0 / 2 0 2 2</u> m m d d y y y y	
Type of Well Well Code <u>12</u> / <u>PZ</u>		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. ☐ E. ☐ W.		Well Installed By: Name (first, last) and Firm Ethan Rislov	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known		Gov. Lot Number _____	
Enf. Stds. Apply ☐				Braun Intertec	

A. Protective pipe, top elevation <u>1 1 8 6 . 9 5</u> ft. MSL B. Well casing, top elevation <u>1 1 8 6 . 9 2</u> ft. MSL C. Land surface elevation <u>1 1 8 4 . 2 7</u> ft. MSL D. Surface seal, bottom <u>1 1 8 2</u> ft. MSL or <u>2</u> ft. 12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☒ 13. Sieve analysis performed? ☐ Yes ☒ No 14. Drilling method used: Rotary ☒ 5 0 Hollow Stem Auger ☒ 4 1 Other ☐ 15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1 Drilling Mud ☒ 0 3 None ☐ 9 9 16. Drilling additives used? ☐ Yes ☒ No Describe _____ 17. Source of water (attach analysis, if required): City of Viroqua Municipal E. Bentonite seal, top _____ ft. MSL or <u>78</u> ft. F. Fine sand, top _____ ft. MSL or <u>86.5</u> ft. G. Filter pack, top _____ ft. MSL or <u>89</u> ft. H. Screen joint, top _____ ft. MSL or <u>92</u> ft. I. Well bottom _____ ft. MSL or <u>97</u> ft. J. Filter pack, bottom _____ ft. MSL or <u>98</u> ft. K. Borehole, bottom _____ ft. MSL or <u>98</u> ft. L. Borehole, diameter <u>0 0 0 6</u> in. M. O.D. well casing <u>2 . 3 7 5</u> in. N. I.D. well casing <u>2 . 0 4 7</u> in.	1. Cap and lock? ☒ Yes ☐ No 2. Protective cover pipe: a. Inside diameter: <u>0 0 6</u> in. b. Length: <u>0 0 5</u> ft. c. Material: Steel ☒ 0 4 Other ☐ d. Additional protection? ☒ Yes ☐ No If yes, describe: <u>Bumper Posts</u> 3. Surface seal: Bentonite ☐ 3 0 Concrete ☒ 0 1 Other ☐ 4. Material between well casing and protective pipe: Bentonite ☒ 3 0 Other ☐ 5. Annular space seal: a. Granular/Chipped Bentonite ☐ 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5 c. _____ Lbs/gal mud weight Bentonite slurry ☐ 3 1 d. <u>20</u> % Bentonite Bentonite-cement grout ☒ 5 0 e. _____ Ft³ volume added for any of the above f. How installed: Tremie ☒ 0 1 Tremie pumped ☐ 0 2 Gravity ☐ 0 8 6. Bentonite seal: a. Bentonite granules ☐ 3 3 b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2 c. <u>NA</u> Other ☐ 7. Fine sand material: Manufacturer, product name & mesh size a. #15 sand b. Volume added <u>1</u> ft³ 8. Filter pack material: Manufacturer, product name & mesh size a. #40 sand b. Volume added <u>2</u> ft³ 9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3 Flush threaded PVC schedule 80 ☐ 2 4 Other ☐ 10. Screen material: <u>PVC</u> a. Screen type: _____ Factory cut ☒ 1 1 Continuous slot ☐ 0 1 Other ☐ b. Manufacturer <u>NA</u> c. Slot size: <u>0 0 1 0</u> in. d. Slotted length: <u>0 0 0 5</u> ft. 11. Backfill material (below filter pack): None ☒ 1 4 Other ☐
--	--

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Alex Boecher Alex Boecher
May 21 2023 9:16 PM

Firm Braun Intertec

Route 10.

Watershed/Wastewater ☐Remediation/Redevelopment ☐Waste Management ☐Other ☐MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name Vernon County Solid Waste Facility		Local Grid Location of Well 103691		Well Name MW-17WT	
Facility License, Permit or Monitoring No.		Local Grid Origin ☐ (estimated: ☐) or Well Location ☐		Wis. Unique Well No. DNR Well ID No. W 0 3 3 8	
Facility ID		St. Plane _____ ft. N. _____ ft. E. S/C/N		Date Well Installed 9 / 2 0 / 2 0 2 2	
Type of Well Well Code 11 / MW		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. ☐ E ☐ W		Well Installed By: Name (first, last) and Firm Ethan Rislov Braun Intertec	
Distance from Waste/Source _____ ft.		Enf. Stds. Apply ☐		Gov. Lot Number	
Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known		Gov. Lot Number			

A. Protective pipe, top elevation	1 1 9 9 . 2 4 ft. MSL	1. Cap and lock?	☒ Yes ☐ No
B. Well casing, top elevation	1 1 9 9 . 1 8 ft. MSL	2. Protective cover pipe:	
C. Land surface elevation	1 1 9 6 . 4 3 ft. MSL	a. Inside diameter:	0 0 6 in.
D. Surface seal, bottom	1 1 9 4 _____ ft. MSL or _____ 2 _____ ft.	b. Length:	0 0 5 ft.
12. USCS classification of soil near screen: GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐ SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐ Bedrock ☐		c. Material:	Steel ☒ 0 4 Other ☐
13. Sieve analysis performed? ☐ Yes ☒ No		d. Additional protection?	☒ Yes ☐ No
14. Drilling method used: Rotary ☒ 5 0 Hollow Stem Auger ☒ 4 1 Other ☐		If yes, describe: Bumper Posts	
15. Drilling fluid used: Water ☒ 0 2 Air ☐ 0 1 Drilling Mud ☒ 0 3 None ☐ 9 9		3. Surface seal:	
16. Drilling additives used? ☐ Yes ☒ No		Bentonite ☐ 3 0 Concrete ☒ 0 1 Other ☐	
17. Source of water (attach analysis, if required): City of Viroqua Municipal		4. Material between well casing and protective pipe:	
		Bentonite ☒ 3 0 Other ☐	
E. Bentonite seal, top _____ ft. MSL or _____ 68 _____ ft.		5. Annular space seal:	
F. Fine sand, top _____ ft. MSL or _____ 71 _____ ft.		a. Granular/Chipped Bentonite ☐ 3 3	
G. Filter pack, top _____ ft. MSL or _____ 75 _____ ft.		b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 3 5	
H. Screen joint, top _____ ft. MSL or _____ 77 _____ ft.		c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 3 1	
I. Well bottom _____ ft. MSL or _____ 87 _____ ft.		d. 20 % Bentonite _____ Bentonite-cement grout ☒ 5 0	
J. Filter pack, bottom _____ ft. MSL or _____ 92 _____ ft.		e. _____ Ft ³ volume added for any of the above	
K. Borehole, bottom _____ ft. MSL or _____ 93 _____ ft.		f. How installed:	
L. Borehole, diameter 0 0 0 6 in.		Tremie ☒ 0 1 Tremie pumped ☐ 0 2 Gravity ☐ 0 8	
M. O.D. well casing 2 . 3 7 5 in.		6. Bentonite seal:	
N. I.D. well casing 2 . 0 4 7 in.		a. Bentonite granules ☐ 3 3	
		b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 3 2	
		c. _____ NA _____ Other ☐	
		7. Fine sand material: Manufacturer, product name & mesh size	
		a. #15 sand	
		b. Volume added _____ 1 _____ ft ³	
		8. Filter pack material: Manufacturer, product name & mesh size	
		a. #40 sand	
		b. Volume added _____ 4 _____ ft ³	
		9. Well casing:	
		Flush threaded PVC schedule 40 ☒ 2 3	
		Flush threaded PVC schedule 80 ☐ 2 4	
		Other ☐	
		10. Screen material: PVC	
		a. Screen type:	
		Factory cut ☒ 1 1	
		Continuous slot ☐ 0 1	
		Other ☐	
		b. Manufacturer _____ NA _____	
		c. Slot size: 0 0 1 0 in.	
		d. Slotted length: 0 0 1 0 ft.	
		11. Backfill material (below filter pack):	
		None ☒ 1 4	
		Other ☐	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

Firm

Braun Intertec

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Appendix O

Well Development Forms within 300 feet of Proposed Expansion

Central Wisconsin
Engineers

P.O. BOX F • SCHOFIELD, WI 54476 • (715) 359-9400

MONITORING WELL DEVELOPMENT

Project Vernon Co. Landfill

Date 3-27-88

Well MW # 3

Method of Development Hand Bailer

Time Before 12:00

Depth to Water 169.42

Clarity of Water Before very silty

Presence of Sediment Before yes

Volume of Water Removed 3.5 gallons

Depth to Water After 170.00

Clarity of Water After slightly silty

Presence of Sediment After some

Time Finished 12:15

Field Temperature 10 °C at 8:30 (Time)

Field Conductivity 280 microhms at 9:30 (Time)

Field pH 6.92 at 9:30 (Time)

Total Suspended Solids:

Central Wisconsin
Engineers

P.O. BOX F • SCHOFIELD, WI 54476 • (715) 359-9400

MONITORING WELL DEVELOPMENT

Project Vernon Co. Landfill

Date 3-24-88

Well MW # 4P

Method of Development Hand Bailer

Time Before 10:20

Depth to Water 88.92

Clarity of Water Before very silty

Presence of Sediment Before yes

Volume of Water Removed 6.3 gallons

Depth to Water After 90.25

Clarity of Water After slightly silty

Presence of Sediment After yes

Time Finished 10:35

Field Temperature 10 °C at 8:30 (Time)

Field Conductivity 280 microhms at 10:00 (Time)

Field pH 6.92 at 10:00 (Time)

Total Suspended Solids:

Facility/Project Name Vernon County	Well Name MW-5A	
License, Permit or Monitoring Number <u>03268</u>	Wis. Unique Well Number	DNR Well Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- | | | |
|--------------------------------------|-------------------------------------|-----|
| surged with bailer and bailed | ☒ | 4 1 |
| surged with bailer and pumped | ☐ | 6 1 |
| surged with block and bailed | ☐ | 4 2 |
| surged with block and pumped | ☐ | 6 2 |
| surged with block, bailed and pumped | ☐ | 7 0 |
| compressed air | ☐ | 2 0 |
| bailed only | ☐ | 1 0 |
| pumped only | ☐ | 5 1 |
| pumped slowly | ☐ | 5 0 |
| Other | ☐ | |

3. Time spent developing well 120 min.

4. Depth of well (from top of well casing) 103.3 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 2.6 gal.

7. Volume of water removed from well 25.5 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added N/A

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

Additional comments on development:

#14 & 15 data not available

	Before Development	After Development
11. Depth to Water (from top of well casing)	<u>91.12</u> ft.	<u>91.27</u> ft.
Date	<u>12/27/89</u> m m d d y y	<u>12/27/89</u> m m d d y y
Time	<u>1:40</u> ☐ a.m. ☒ p.m.	<u> </u> ☐ a.m. ☒ p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) <u>Light Brown</u>	Clear ☐ 20 Turbid ☒ 25 (Describe) <u>Light Brown</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

Well developed by: Person's Name and Firm

Name: Arik Salzman

Firm: Central Wisconsin Engineers, Inc.

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Arik Salzman

Firm: Central Wisconsin Engineers, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information.

Facility/Project Name <u>Vernon Co.</u>		Well Name <u>MW-10</u>	
License, Permit or Monitoring Number <u>03268</u>		Wis. Unique Well Number _____ DNR Well Number _____	

1. Can this well be purged dry? ☐ Yes ☒ No 2. Well development method surged with bailer and bailed ☐ 4 1 surged with bailer and pumped ☐ 6 1 surged with block and bailed ☐ 4 2 surged with block and pumped ☐ 6 2 surged with block, bailed and pumped ☐ 7 0 compressed air ☒ 2 0 bailed only ☒ 1 0 pumped only ☐ 5 1 pumped slowly ☐ 5 0 Other ☐ 3. Time spent developing well <u>90</u> min. 4. Depth of well (from top of well casing) <u>181.0</u> ft. 5. Inside diameter of well <u>2.00</u> in. 6. Volume of water in filter pack and well casing <u>5.5</u> gal. 7. Volume of water removed from well <u>40.0</u> gal. 8. Volume of water added (if any) <u>0.0</u> gal. 9. Source of water added <u>N/A</u> 10. Analysis performed on water added? ☐ Yes ☒ No (If yes, attach results)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;"></th> <th style="width:35%;">Before Development</th> <th style="width:35%;">After Development</th> </tr> </thead> <tbody> <tr> <td>11. Depth to Water (from top of well casing)</td> <td><u>146.43</u> ft.</td> <td><u>147.26</u> ft.</td> </tr> <tr> <td>Date</td> <td><u>10 / 24 / 89</u> m m d d y y</td> <td><u>10 / 24 / 89</u> m m d d y y</td> </tr> <tr> <td>Time</td> <td><u>3:30</u> ☐ a.m. ☒ p.m.</td> <td><u>5:00</u> ☐ a.m. ☒ p.m.</td> </tr> <tr> <td>12. Sediment in well bottom</td> <td><u>0.0</u> inches</td> <td><u>0.0</u> inches</td> </tr> <tr> <td>13. Water clarity</td> <td> Clear ☐ 10 Turbid ☒ 15 (Describe) <u>Light Brown</u> </td> <td> Clear ☐ 20 Turbid ☒ 25 (Describe) <u>Light Brown</u> </td> </tr> <tr> <td colspan="3">Fill in if drilling fluids were used and well is at solid waste facility:</td> </tr> <tr> <td>14. Total suspended solids</td> <td>_____ mg/l</td> <td>_____ mg/l</td> </tr> <tr> <td>15. COD</td> <td>_____ mg/l</td> <td>_____ mg/l</td> </tr> </tbody> </table>		Before Development	After Development	11. Depth to Water (from top of well casing)	<u>146.43</u> ft.	<u>147.26</u> ft.	Date	<u>10 / 24 / 89</u> m m d d y y	<u>10 / 24 / 89</u> m m d d y y	Time	<u>3:30</u> ☐ a.m. ☒ p.m.	<u>5:00</u> ☐ a.m. ☒ p.m.	12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches	13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) <u>Light Brown</u>	Clear ☐ 20 Turbid ☒ 25 (Describe) <u>Light Brown</u>	Fill in if drilling fluids were used and well is at solid waste facility:			14. Total suspended solids	_____ mg/l	_____ mg/l	15. COD	_____ mg/l	_____ mg/l
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14. Total suspended solids	_____ mg/l	_____ mg/l																										
15. COD	_____ mg/l	_____ mg/l																										

Additional comments on development:
#14 & 15 data not available

Well developed by: Person's Name and Firm Name: <u>Steve Braun</u> Firm: <u>Central Wisconsin Engineers</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: <u><i>Keith Thornton</i></u> Firm: <u>Central Wisconsin Engineers</u>
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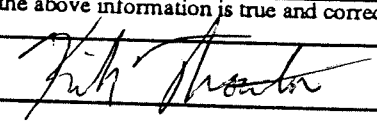
NOTE: Shaded areas are for DNR use only. See instructions for more information.

Facility/Project Name <u>Vernon Co.</u>		Well Name <u>MW-11</u>	
License, Permit or Monitoring Number <u>03268</u>		Wis. Unique Well Number _____	DNR Well Number _____

1. Can this well be purged dry? ☒ Yes ☐ No 2. Well development method surged with bailer and bailed ☐ 4 1 surged with bailer and pumped ☐ 6 1 surged with block and bailed ☐ 4 2 surged with block and pumped ☐ 6 2 surged with block, bailed and pumped ☐ 7 0 compressed air ☐ 2 0 bailed only ☒ 1 0 pumped only ☐ 5 1 pumped slowly ☐ 5 0 Other ☐ 3. Time spent developing well <u>25</u> min. 4. Depth of well (from top of well casing) <u>160.0</u> ft. 5. Inside diameter of well <u>2.00</u> in. 6. Volume of water in filter pack and well casing <u>3.2</u> gal. 7. Volume of water removed from well <u>3.0</u> gal. 8. Volume of water added (if any) <u>0.0</u> gal. 9. Source of water added <u>N/A</u> 10. Analysis performed on water added? ☐ Yes ☐ No (If yes, attach results)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:30%;"></th> <th style="width:35%;">Before Development</th> <th style="width:35%;">After Development</th> </tr> <tr> <td>11. Depth to Water (from top of well casing)</td> <td><u>144.62</u> ft.</td> <td><u>Dry</u> ft.</td> </tr> <tr> <td>Date</td> <td><u>10/24/89</u> m m d d y y</td> <td><u>10/24/89</u> m m d d y y</td> </tr> <tr> <td>Time</td> <td><u>3:00</u> ☐ a.m. ☒ p.m.</td> <td><u>3:25</u> ☐ a.m. ☒ p.m.</td> </tr> <tr> <td>12. Sediment in well bottom</td> <td><u>0.0</u> inches</td> <td><u>0.0</u> inches</td> </tr> <tr> <td>13. Water clarity</td> <td> Clear ☐ 10 Turbid ☒ 15 (Describe) <u>Light Brown</u> </td> <td> Clear ☐ 20 Turbid ☒ 25 (Describe) <u>Light Brown</u> </td> </tr> <tr> <td colspan="3">Fill in if drilling fluids were used and well is at solid waste facility:</td> </tr> <tr> <td>14. Total suspended solids</td> <td>_____ mg/l</td> <td>_____ mg/l</td> </tr> <tr> <td>15. COD</td> <td>_____ mg/l</td> <td>_____ mg/l</td> </tr> </table>		Before Development	After Development	11. Depth to Water (from top of well casing)	<u>144.62</u> ft.	<u>Dry</u> ft.	Date	<u>10/24/89</u> m m d d y y	<u>10/24/89</u> m m d d y y	Time	<u>3:00</u> ☐ a.m. ☒ p.m.	<u>3:25</u> ☐ a.m. ☒ p.m.	12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches	13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) <u>Light Brown</u>	Clear ☐ 20 Turbid ☒ 25 (Describe) <u>Light Brown</u>	Fill in if drilling fluids were used and well is at solid waste facility:			14. Total suspended solids	_____ mg/l	_____ mg/l	15. COD	_____ mg/l	_____ mg/l
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Time	<u>3:00</u> ☐ a.m. ☒ p.m.	<u>3:25</u> ☐ a.m. ☒ p.m.																										
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches																										
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) <u>Light Brown</u>	Clear ☐ 20 Turbid ☒ 25 (Describe) <u>Light Brown</u>																										
Fill in if drilling fluids were used and well is at solid waste facility:																												
14. Total suspended solids	_____ mg/l	_____ mg/l																										
15. COD	_____ mg/l	_____ mg/l																										

Additional comments on development:

± 14-15 data not available

Well developed by: Person's Name and Firm Name: <u>Steve Braun</u> Firm: <u>Central Wisconsin Engineers</u>	I hereby certify that the above information is true and correct to the best of my knowledge. Signature: <u></u> Firm: <u>Central Wisconsin Engineers</u>
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NOTE: Shaded areas are for DNR use only. See instructions for more information.

Additional comments on development:
14 & 15 data not available

NOTE: Shaded areas are for DNR use only. See instructions for more information.

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name <i>Vernon Co. Bolefill</i>	County Name <i>Vernon</i>	Well Name <i>MW-14</i>	
Facility License, Permit or Monitoring Number <i>03268</i>	County Code <i>63</i>	Wis. Unique Well Number <i>JX072</i>	DNR Well Number <i>118</i>

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 41
surged with bailer and pumped ☐ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☒ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well *75 min.*

4. Depth of well (from top of well casing) *186.1 ft.*

5. Inside diameter of well *1.94 in.*

6. Volume of water in filter pack and well casing *3.2 gal.*

7. Volume of water removed from well *8.0 gal.*

8. Volume of water added (if any) *0 gal.*

9. Source of water added *City of Viroqua Airport*

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing) a. *181.39 ft.*

182.82 ft.

Date b. *03/25/2003*
mm/dd/yy

03/25/2003

Time c. *01:45* ☐ a.m. ☒ p.m.

3:00 ☐ a.m. ☒ p.m.

12. Sediment in well bottom *inches*

inches

13. Water clarity Clear ☐ 10
Turbid ☒ 15
(Describe)

Clear ☐ 10
Turbid ☐ 15
(Describe)

Brown silty Sandy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids *mg/l*

mg/l

15. COD *mg/l*

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: *Ka Yin Yang*

Firm: *Central Wisconsin Engineers & Architects*

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: *Peter J. Strubbe*

Print Initials: *PJS*

Firm: *Central Wisconsin Engineers & Architects*

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name <i>Vernon Co. Bafefill</i>	County Name <i>Vernon</i>	Well Name <i>MW-14Z</i>	
Facility License, Permit or Monitoring Number <i>03268</i>	County Code <i>63</i>	Wis. Unique Well Number <i>JX073</i>	DNR Well Number <i>119</i>

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☒ 41
surged with bailer and pumped ☐ 61
surged with block and bailed ☐ 42
surged with block and pumped ☐ 62
surged with block, bailed and pumped ☐ 70
compressed air ☐ 20
bailed only ☐ 10
pumped only ☐ 51
pumped slowly ☐ 50
Other ☐

3. Time spent developing well *195 min.*

4. Depth of well (from top of well casing) *210.8 ft.*

5. Inside diameter of well *1.94 in.*

6. Volume of water in filter pack and well casing *9.8 gal.*

7. Volume of water removed from well *25.0 gal.*

8. Volume of water added (if any) *0 gal.*

9. Source of water added *Viroqua*

10. Analysis performed on water added? ☐ Yes ☒ No
(If yes, attach results)

Before Development

After Development

11. Depth to Water

(from top of well casing) a. *182.92 ft.*

183.15 ft.

Date

mm/dd/yy

b. *03/25/2003*

05/07/2003

Time

c. *01:30*

☐ a.m.

☒ p.m.

☐ a.m.

☒ p.m.

12. Sediment in well bottom

inches

inches

13. Water clarity

Clear

Turbid

(Describe)

☐ 10

☒ 15

Slightly silty Light tan

Clear

Turbid

(Describe)

☐ 10

☒ 15

Slightly cloudy Light tan

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids

mg/l

mg/l

15. COD

mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: *Ka Yin Yang*

Firm: *Central Wisconsin Engineers & Architects*

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: *Peter D. Brouton*

Print Initials: *PDB*

Firm: *Central Wisconsin Engineers & Architects*

Route to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Vernon County Landfill	County Name Vernon	Well Name MW-14WT
Facility License, Permit or Monitoring Number 3268	County Code 62	Wis. Unique Well Number WC334
		DNR Well ID Number 125

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 4 1
 surged with bailer and pumped ☐ 6 1
 surged with block and bailed ☐ 4 2
 surged with block and pumped ☒ 6 2
 surged with block, bailed and pumped ☐ 7 0
 compressed air ☐ 2 0
 bailed only ☐ 1 0
 pumped only ☐ 5 1
 pumped slowly ☐ 5 0
 Other ☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 108.35 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 0.80 gal.

7. Volume of water removed from well 80.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>103.31</u> ft.	<u>103.31</u> ft.
Date	b. <u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y	<u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y
Time	c. <u>1</u> : <u>00</u> ☐ a.m. ☒ p.m.	<u>2</u> : <u>00</u> ☐ a.m. ☒ p.m.
12. Sediment in well bottom	<u>0.1</u> inches	<u>0.0</u> inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) <u>very light brown</u> <u>turbid</u>	Clear ☒ 2 0 Turbid ☐ 2 5 (Describe) <u>clear</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>289.0</u> mg/l	<u>10.0</u> mg/l
15. COD	<u>10.0</u> mg/l	<u>10.0</u> mg/l
16. Well developed by: Name (first, last) and Firm		
First Name: Veronica Last Name: Aranda		
Firm: Short Elliott Hendrickson Inc.		

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Stacie Last Name: Sanborn

Facility/Firm: Vernon County Solid Waste

Street: S3705 County Road LF

City/State/Zip: Viroqua, WI 54665

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Veronica Aranda

Print Name: Veronica Aranda

Firm: Short Elliott Hendrickson Inc.

Route to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Vernon County Landfill	County Name Vernon	Well Name MW-15WT
Facility License, Permit or Monitoring Number 3268	County Code 62	Wis. Unique Well Number WC335
		DNR Well ID Number 127

1. Can this well be purged dry? ☐ Yes ☒ No

DRY WELL

2. Well development method

- surged with bailer and bailed ☐ 4 1
 surged with bailer and pumped ☐ 6 1
 surged with block and bailed ☐ 4 2
 surged with block and pumped ☒ 6 2
 surged with block, bailed and pumped ☐ 7 0
 compressed air ☐ 2 0
 bailed only ☐ 1 0
 pumped only ☐ 5 1
 pumped slowly ☐ 5 0
 Other DRY WELL ☒

3. Time spent developing well 20 min.

4. Depth of well (from top of well casing) 85.53 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing DRY gal.

7. Volume of water removed from well 0.0 gal.

8. Volume of water added (if any) 3.0 gal.

9. Source of water added water provided by Vernon County Highway Department

10. Analysis performed on water added? ☒ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>85.13</u> ft.	<u>85.53</u> ft.
Date	b. <u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y	<u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y
Time	c. <u>10</u> : <u>40</u> ☒ a.m. ☐ p.m.	<u>11</u> : <u>00</u> ☒ a.m. ☐ p.m.
12. Sediment in well bottom	<u> </u> inches	<u> </u> inches
13. Water clarity	Clear ☐ 1 0 Turbid ☐ 1 5 (Describe)	Clear ☐ 2 0 Turbid ☐ 2 5 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u> </u> mg/l	<u> </u> mg/l
15. COD	<u> </u> mg/l	<u> </u> mg/l
16. Well developed by: Name (first, last) and Firm		
First Name: <u>Veronica</u> Last Name: <u>Aranda</u>		
Firm: <u>Short Elliott Hendrickson Inc.</u>		

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Stacie Last Name: Sanborn

Facility/Firm: Vernon County Solid Waste

Street: S3705 County Road LF

City/State/Zip: Viroqua, WI 54665

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Veronica Aranda

Print Name: Veronica Aranda

Firm: Short Elliott Hendrickson Inc.

Route to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Vernon County Landfill	County Name Vernon	Well Name MW-16WT
Facility License, Permit or Monitoring Number 3268	County Code 62	Wis. Unique Well Number WC336
		DNR Well ID Number 129

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 4 1
 surged with bailer and pumped ☐ 6 1
 surged with block and bailed ☐ 4 2
 surged with block and pumped ☒ 6 2
 surged with block, bailed and pumped ☐ 7 0
 compressed air ☐ 2 0
 bailed only ☐ 1 0
 pumped only ☐ 5 1
 pumped slowly ☐ 5 0
 Other ☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 77.6 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 0.3 gal.

7. Volume of water removed from well 6.0 gal.

8. Volume of water added (if any) 3.0 gal.

9. Source of water added water provided by Vernon County Highway Department

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

Purged dry and very slow recharge. Therefore, not enough water to collect a sample.

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>75.70</u> ft.	<u>76.23</u> ft.
Date	b. <u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y	<u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y
Time	c. <u>11</u> : <u>30</u> ☒ a.m. ☐ p.m.	<u>12</u> : <u>30</u> ☐ a.m. ☒ p.m.
12. Sediment in well bottom	<u>0.2</u> inches	<u>0.0</u> inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) <u>light brown</u> <u>sandy/silty</u>	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) <u>light brown</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u> </u> mg/l	<u> </u> mg/l
15. COD	<u> </u> mg/l	<u> </u> mg/l
16. Well developed by: Name (first, last) and Firm		
First Name: <u>Veronica</u>		Last Name: <u>Aranda</u>
Firm: <u>Short Elliott Hendrickson Inc.</u>		

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Stacie Last Name: Sanborn

Facility/Firm: Vernon County Solid Waste

Street: S3705 County Road LF

City/State/Zip: Viroqua, WI 54665

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Veronica Aranda

Print Name: Veronica Aranda

Firm: Short Elliott Hendrickson Inc.

Route to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Vernon County Landfill	County Name Vernon	Well Name MW-16
Facility License, Permit or Monitoring Number 3268	County Code 62	Wis. Unique Well Number WC337
		DNR Well ID Number 131

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

- surged with bailer and bailed ☐ 4 1
 surged with bailer and pumped ☐ 6 1
 surged with block and bailed ☐ 4 2
 surged with block and pumped ☒ 6 2
 surged with block, bailed and pumped ☐ 7 0
 compressed air ☐ 2 0
 bailed only ☐ 1 0
 pumped only ☐ 5 1
 pumped slowly ☐ 5 0
 Other ☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 99.8 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 2.5 gal.

7. Volume of water removed from well 2.5 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>84.49</u> ft.	<u>84.49</u> ft.
Date	b. <u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y	<u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y
Time	c. <u>2</u> : <u>30</u> ☐ a.m. ☒ p.m.	<u>3</u> : <u>30</u> ☐ a.m. ☒ p.m.
12. Sediment in well bottom	<u>0.0</u> inches	<u>0.0</u> inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) <u>light brown</u> <u>little silt</u>	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) <u>light brown</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>273.0</u> mg/l	<u>11.5</u> mg/l
15. COD	<u>11.5</u> mg/l	
16. Well developed by: Name (first, last) and Firm		
First Name: <u>Veronica</u> Last Name: <u>Aranda</u>		
Firm: <u>Short Elliott Hendrickson Inc.</u>		

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Stacie Last Name: Sanborn

Facility/Firm: Vernon County Solid Waste

Street: S3705 County Road LF

City/State/Zip: Viroqua, WI 54665

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Veronica Aranda

Print Name: Veronica Aranda

Firm: Short Elliott Hendrickson Inc.

Route to: Watershed/Wastewater ☐ Waste Management ☒
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name Vernon County Landfill	County Name Vernon	Well Name MW-17WT
Facility License, Permit or Monitoring Number 3268	County Code 62	Wis. Unique Well Number WC338
		DNR Well ID Number 133

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

- surged with bailer and bailed ☐ 4 1
 surged with bailer and pumped ☐ 6 1
 surged with block and bailed ☐ 4 2
 surged with block and pumped ☒ 6 2
 surged with block, bailed and pumped ☐ 7 0
 compressed air ☐ 2 0
 bailed only ☐ 1 0
 pumped only ☐ 5 1
 pumped slowly ☐ 5 0
 Other ☐

3. Time spent developing well 60 min.

4. Depth of well (from top of well casing) 89.2 ft.

5. Inside diameter of well 2.0 in.

6. Volume of water in filter pack and well casing 0.6 gal.

7. Volume of water removed from well 25.0 gal.

8. Volume of water added (if any) 15.0 gal.

9. Source of water added water provided by Vernon County Highway Department

10. Analysis performed on water added? ☒ Yes ☐ No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>85.53</u> ft.	<u>84.98</u> ft.
Date	b. <u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y	<u>11</u> / <u>02</u> / <u>2022</u> m m d d y y y y
Time	c. <u>9</u> : <u>30</u> ☒ a.m. ☐ p.m.	<u>10</u> : <u>30</u> ☒ a.m. ☐ p.m.
12. Sediment in well bottom	<u>0.6</u> inches	<u>1.0</u> inches
13. Water clarity	Clear ☐ 1 0 Turbid ☒ 1 5 (Describe) <u>light brown</u> <u>sandy/silty</u>	Clear ☐ 2 0 Turbid ☒ 2 5 (Describe) <u>light brown</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	<u>58.4</u> mg/l	<u>11.0</u> mg/l
15. COD	<u>11.0</u> mg/l	
16. Well developed by: Name (first, last) and Firm		
First Name: <u>Veronica</u> Last Name: <u>Aranda</u>		
Firm: <u>Short Elliott Hendrickson Inc.</u>		

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Stacie Last Name: Sanborn

Facility/Firm: Vernon County Solid Waste

Street: S3705 County Road LF

City/State/Zip: Viroqua, WI 54665

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Veronica Aranda

Print Name: Veronica Aranda

Firm: Short Elliott Hendrickson Inc.